

All Databases PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books

Search PubMed for sigma 54 AND chimeric Go Clear Save Search

Limits Preview/Index History Clipboard Details

Display Summary Show 20 Sort by Send to

About Entrez

Text Version

Entrez PubMed

Overview

Help | FAQ

Tutorial

New/Noteworthy

E-Utilities

PubMed Services

Journals Database

MeSH Database

Single Citation Matcher

Batch Citation Matcher

Clinical Queries

Special Queries

LinkOut

My NCBI (Cubby)

Related Resources

Order Documents

NLM Catalog

NLM Gateway

TOXNET

Consumer Health

Clinical Alerts

ClinicalTrials.gov

PubMed Central

Items 1 - 5 of 5

One page.

1: Skarfstad E, O'Neill E, Garmendia J, Shingler V.

Related Articles, Links



Identification of an effector specificity subregion within the aromatic-responsive regulators DmpR and XylR by DNA shuffling.

J Bacteriol. 2000 Jun;182(11):3008-16.

PMID: 10809676 [PubMed - indexed for MEDLINE]

2: Carrick CS, Fyfe JA, Davies JK.

Related Articles, Links



The genome of *Neisseria gonorrhoeae* retains the remnants of a two-component regulatory system that once controlled piliation.

FEMS Microbiol Lett. 2000 May 15;186(2):197-201.

PMID: 10802171 [PubMed - indexed for MEDLINE]

3: Reizer J, Reizer A, Merrick MJ, Plunkett G 3rd, Rose DJ, Saier MH Jr.

Related Articles, Links



Novel phosphotransferase-encoding genes revealed by analysis of the *Escherichia coli* genome: a chimeric gene encoding an Enzyme I homologue that possesses a putative sensory transduction domain.

Gene. 1996 Nov 28;181(1-2):103-8.

PMID: 8973315 [PubMed - indexed for MEDLINE]

4: Jacob J, Drummond M.

Related Articles, Links



Construction of chimeric proteins from the sigma N-associated transcriptional activators VnfA and AnfA of *Azotobacter vinelandii* shows that the determinants of promoter specificity lie outside the 'recognition' helix of the HTH motif in the C-terminal domain.

Mol Microbiol. 1993 Nov;10(4):813-21.

PMID: 7934843 [PubMed - indexed for MEDLINE]

5: Stigter J, Schneider M, de Bruijn FJ.

Related Articles, Links



*Azorhizobium caulinodans* nitrogen fixation (*nif/fix*) gene regulation: mutagenesis of the *nifA* -24/-12 promoter element, characterization of a *ntrA*(*rpoN*) gene, and derivation of a model.

Mol Plant Microbe Interact. 1993 Mar-Apr;6(2):238-52.

PMID: 8471796 [PubMed - indexed for MEDLINE]

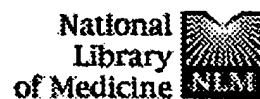
Display Summary Show 20 Sort by Send to

Write to the Help Desk

NCBI | NLM | NIH

Department of Health & Human Services

Privacy Statement | Freedom of Information Act | Disclaimer



All Databases PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books

Search PubMed for sigma 54 AND chimera Go Clear Save Search

Limits Preview/Index History Clipboard Details

Display Summary Show 20 Sort by Send to

About Entrez

Text Version

Items 1 - 2 of 2

One page.

## Entrez PubMed

Overview  
Help | FAQ  
Tutorial  
New/Noteworthy  
E-Utilities

## PubMed Services

Journals Database  
MeSH Database  
Single Citation Matcher  
Batch Citation Matcher  
Clinical Queries  
Special Queries  
LinkOut  
My NCBI (Cubby)

## Related Resources

Order Documents  
NLM Catalog  
NLM Gateway  
TOXNET  
Consumer Health  
Clinical Alerts  
ClinicalTrials.gov  
PubMed Central

☐ 1: [Carmona M, Fernandez S, Rodriguez MJ, de Lorenzo V.](#) Related Articles, Links

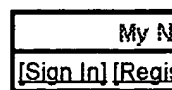
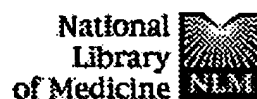
m-xylene-responsive Pu-PnifH hybrid sigma54 promoters that overcome physiological control in Pseudomonas putida KT2442.  
J Bacteriol. 2005 Jan;187(1):125-34.  
PMID: 15601696 [PubMed - indexed for MEDLINE]

☐ 2: [Jacob J, Drummond M.](#) Related Articles, Links

Construction of chimeric proteins from the sigma N-associated transcriptional activators VnfA and AnfA of Azotobacter vinelandii shows that the determinants of promoter specificity lie outside the 'recognition' helix of the HTH motif in the C-terminal domain.  
Mol Microbiol. 1993 Nov;10(4):813-21.  
PMID: 7934843 [PubMed - indexed for MEDLINE]

[Write to the Help Desk](#)[NCBI](#) | [NLM](#) | [NIH](#)[Department of Health & Human Services](#)[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)

Jun 6 2005 07:23:23



All Databases PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books

Search PubMed for sigma 54 AND hybrid Go Clear Save Search

Limits Preview/Index History Clipboard Details

Display Summary Show 20 Sort by Send to

About Entrez

Text Version

Entrez PubMed

Overview

Help | FAQ

Tutorial

New/Noteworthy

E-Utilities

PubMed Services

Journals Database

MeSH Database

Single Citation Matcher

Batch Citation Matcher

Clinical Queries

Special Queries

LinkOut

My NCBI (Cubby)

Related Resources

Order Documents

NLM Catalog

NLM Gateway

TOXNET

Consumer Health

Clinical Alerts

ClinicalTrials.gov

PubMed Central

Items 1 - 19 of 19

One page.

1: [Ryan KA, Karim N, Worku M, Moore SA, Penn CW, O'toole PW](#). Related Articles, Links

HP0958 is an essential motility gene in *Helicobacter pylori*.  
FEMS Microbiol Lett. 2005 Jun 7; [Epub ahead of print]  
PMID: 15946806 [PubMed - as supplied by publisher]

2: [Elderkin S, Bordes P, Jones S, Rappas M, Buck M](#). Related Articles, Links

Molecular determinants for PspA-mediated repression of the AAA transcriptional activator PspF.  
J Bacteriol. 2005 May;187(9):3238-48.  
PMID: 15838051 [PubMed - in process]

3: [Carmona M, Fernandez S, Rodriguez MJ, de Lorenzo V](#). Related Articles, Links

m-xylene-responsive Pu-PnfIH hybrid sigma54 promoters that overcome physiological control in *Pseudomonas putida* KT2442.  
J Bacteriol. 2005 Jan;187(1):125-34.  
PMID: 15601696 [PubMed - indexed for MEDLINE]

4: [Busch A, Pohlmann A, Friedrich B, Cramm R](#). Related Articles, Links

A DNA region recognized by the nitric oxide-responsive transcriptional activator NorR is conserved in beta- and gamma-proteobacteria.  
J Bacteriol. 2004 Dec;186(23):7980-7.  
PMID: 15547270 [PubMed - indexed for MEDLINE]

5: [Harrod AC, Yang X, Junker M, Reitzer L](#). Related Articles, Links

Evidence for a second interaction between the regulatory amino-terminal and central output domains of the response regulator NtrC (nitrogen regulator I) in *Escherichia coli*.  
J Biol Chem. 2004 Jan 23;279(4):2350-9. Epub 2003 Oct 16.  
PMID: 14563853 [PubMed - indexed for MEDLINE]


6: [Kirby JR, Zusman DR](#). Related Articles, Links

Chemosensory regulation of developmental gene expression in *Myxococcus xanthus*.  
Proc Natl Acad Sci U S A. 2003 Feb 18;100(4):2008-13. Epub 2003 Feb 3.  
PMID: 12566562 [PubMed - indexed for MEDLINE]

7: [Frisk A, Jyot J, Arora SK, Ramphal R](#). Related Articles, Links

Identification and functional characterization of flgM, a gene encoding the anti-sigma 28 factor in *Pseudomonas aeruginosa*.  
J Bacteriol. 2002 Mar;184(6):1514-21.

PMID: 11872701 [PubMed - indexed for MEDLINE]

-  **8:** [Hutcheson SW, Bretz J, Sussan T, Jin S, Pak K.](#)

[Related Articles, Links](#)



**Enhancer-binding proteins HrpR and HrpS interact to regulate hrp-encoded type III protein secretion in *Pseudomonas syringae* strains.**

J Bacteriol. 2001 Oct;183(19):5589-98.

PMID: 11544221 [PubMed - indexed for MEDLINE]

-  **9:** [Chen BS, Sun ZW, Hampsey M.](#)


[Related Articles, Links](#)



**A Gal4-sigma 54 hybrid protein that functions as a potent activator of RNA polymerase II transcription in yeast.**

J Biol Chem. 2001 Jun 29;276(26):23881-7. Epub 2001 Apr 19.

PMID: 11313364 [PubMed - indexed for MEDLINE]

-  **10:** [Lilley BN, Bassler BL.](#)

[Related Articles, Links](#)



**Regulation of quorum sensing in *Vibrio harveyi* by LuxO and sigma-54.**

Mol Microbiol. 2000 May;36(4):940-54.

PMID: 10844680 [PubMed - indexed for MEDLINE]

-  **11:** [Skarfstad E, O'Neill E, Garmendia J, Shingler V.](#)

[Related Articles, Links](#)



**Identification of an effector specificity subregion within the aromatic-responsive regulators DmpR and XylR by DNA shuffling.**

J Bacteriol. 2000 Jun;182(11):3008-16.

PMID: 10809676 [PubMed - indexed for MEDLINE]

-  **12:** [Camarena L, Poggio S, Campos A, Bastarrachea F, Osorio A.](#)

[Related Articles, Links](#)



**An IS4 insertion at the glnA control region of *Escherichia coli* creates a new promoter by providing the -35 region of its 3'-end.**

Plasmid. 1998;39(1):41-7.

PMID: 9473445 [PubMed - indexed for MEDLINE]

-  **13:** [Wang JT, Syed A, Gralla JD.](#)


[Related Articles, Links](#)



**Multiple pathways to bypass the enhancer requirement of sigma 54 RNA polymerase: roles for DNA and protein determinants.**

Proc Natl Acad Sci U S A. 1997 Sep 2;94(18):9538-43.

PMID: 9275158 [PubMed - indexed for MEDLINE]

-  **14:** [Perez-Martin J, De Lorenzo V.](#)


[Related Articles, Links](#)



**The amino-terminal domain of the prokaryotic enhancer-binding protein XylR is a specific intramolecular repressor.**

Proc Natl Acad Sci U S A. 1995 Sep 26;92(20):9392-6.

PMID: 7568139 [PubMed - indexed for MEDLINE]

-  **15:** [Fernandez S, de Lorenzo V, Perez-Martin J.](#)

[Related Articles, Links](#)



**Activation of the transcriptional regulator XylR of *Pseudomonas putida* by release of repression between functional domains.**

Mol Microbiol. 1995 Apr;16(2):205-13.

PMID: 7565083 [PubMed - indexed for MEDLINE]

-  **16:** [Perez-Martin J, Timmis KN, de Lorenzo V.](#)

[Related Articles, Links](#)



**Co-regulation by bent DNA. Functional substitutions of the integration host factor site at sigma 54-dependent promoter Pu of the upper-TOL**

**operon by intrinsically curved sequences.**

J Biol Chem. 1994 Sep 9;269(36):22657-62.

PMID: 8077217 [PubMed - indexed for MEDLINE]

 **17:** [Whitehall S, Austin S, Dixon R.](#)


[Related Articles](#), [Links](#)



**The function of the upstream region of the sigma 54-dependent *Klebsiella pneumoniae* nifL promoter is sensitive to DNA supercoiling.**

Mol Microbiol. 1993 Sep;9(5):1107-17.

PMID: 7934916 [PubMed - indexed for MEDLINE]

 **18:** [Drummond MH, Contreras A, Mitchenall LA.](#)


[Related Articles](#), [Links](#)



**The function of isolated domains and chimaeric proteins constructed from the transcriptional activators NifA and NtrC of *Klebsiella pneumoniae*.**

Mol Microbiol. 1990 Jan;4(1):29-37.

PMID: 2181238 [PubMed - indexed for MEDLINE]

 **19:** [Romermann D, Warrelmann J, Bender RA, Friedrich B.](#)





[Related Articles](#), [Links](#)



**An rpoN-like gene of *Alcaligenes eutrophus* and *Pseudomonas facilis* controls expression of diverse metabolic pathways, including hydrogen oxidation.**

J Bacteriol. 1989 Feb;171(2):1093-9.

PMID: 2536672 [PubMed - indexed for MEDLINE]

Display Summary  Show 20  Sort by  Send to 

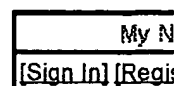
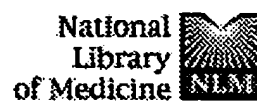
[Write to the Help Desk](#)

[NCBI](#) | [NLM](#) | [NIH](#)

[Department of Health & Human Services](#)

[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)

Jun 6 2005 07:23:23



All Databases PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books

Search PubMed for sigma54 AND hybrid

Limits Preview/Index History Clipboard Details

Display Summary Show 20 Sort by Send to

All: 8 Review: 0

Items 1 - 8 of 8

One page.

About Entrez

Text Version

Entrez PubMed

Overview

Help | FAQ

Tutorial

New/Noteworthy

E-Utilities

PubMed Services

Journals Database

MeSH Database

Single Citation Matcher

Batch Citation Matcher

Clinical Queries

Special Queries

LinkOut

My NCBI (Cubby)

Related Resources

Order Documents

NLM Catalog

NLM Gateway

TOXNET

Consumer Health

Clinical Alerts

ClinicalTrials.gov

PubMed Central

☐ 1: [Carmona M, Fernandez S, Rodriguez MJ, de Lorenzo V.](#)

[Related Articles, Links](#)

m-xylene-responsive Pu-PnifH hybrid sigma54 promoters that overcome physiological control in *Pseudomonas putida* KT2442.  
J Bacteriol. 2005 Jan;187(1):125-34.  
PMID: 15601696 [PubMed - indexed for MEDLINE]

☐ 2: [Muir RE, Gober JW.](#)

[Related Articles, Links](#)

Regulation of FlbD activity by flagellum assembly is accomplished through direct interaction with the trans-acting factor, FlhX.  
Mol Microbiol. 2004 Nov;54(3):715-30.  
PMID: 15491362 [PubMed - in process]

☐ 3: [Hutcheson SW, Bretz J, Sussan T, Jin S, Pak K.](#)

[Related Articles, Links](#)

Enhancer-binding proteins HrpR and HrpS interact to regulate hrp-encoded type III protein secretion in *Pseudomonas syringae* strains.  
J Bacteriol. 2001 Oct;183(19):5589-98.  
PMID: 11544221 [PubMed - indexed for MEDLINE]

☐ 4: [Colland F, Rain JC, Gounon P, Labigne A, Legrain P, De Reuse H.](#) [Related Articles, Links](#)

Identification of the *Helicobacter pylori* anti-sigma28 factor.  
Mol Microbiol. 2001 Jul;41(2):477-87.  
PMID: 11489132 [PubMed - indexed for MEDLINE]

☐ 5: [Chen BS, Sun ZW, Hampsey M.](#)

[Related Articles, Links](#)

A Gal4-sigma 54 hybrid protein that functions as a potent activator of RNA polymerase II transcription in yeast.  
J Biol Chem. 2001 Jun 29;276(26):23881-7. Epub 2001 Apr 19.  
PMID: 11313364 [PubMed - indexed for MEDLINE]

☐ 6: [Lilley BN, Bassler BL.](#)

[Related Articles, Links](#)

Regulation of quorum sensing in *Vibrio harveyi* by LuxO and sigma-54.  
Mol Microbiol. 2000 May;36(4):940-54.  
PMID: 10844680 [PubMed - indexed for MEDLINE]

☐ 7: [Camarena L, Poggio S, Campos A, Bastarrachea F, Osorio A.](#)

[Related Articles, Links](#)

An IS4 insertion at the *glnA* control region of *Escherichia coli* creates a new promoter by providing the -35 region of its 3'-end.  
Plasmid. 1998;39(1):41-7.  
PMID: 9473445 [PubMed - indexed for MEDLINE]

☐ 8: [Wang JT, Syed A, Gralla JD.](#)

[Related Articles, Links](#)



Multiple pathways to bypass the enhancer requirement of sigma 54 RNA polymerase: roles for DNA and protein determinants.

Proc Natl Acad Sci U S A. 1997 Sep 2;94(18):9538-43.

PMID: 9275158 [PubMed - indexed for MEDLINE]

Display  Show  Sort by  Send to

[Write to the Help Desk](#)

[NCBI](#) | [NLM](#) | [NIH](#)

[Department of Health & Human Services](#)

[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)

Jun 6 2005 07:23:23